



Page 9, line 3, after "the following methods", please insert --

The chemical nature

Product R is described in U.S. patent application Serial No. 09/344,095, which is incorporated

by reference herein in its entirety. Product R is provided by Advance Viral Research

Corporation (Yonkers, New York) --.

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IN THE CLAIMS:

Please amend the claims as follows:

1. (Amended) A method for determining down-regulation of gene expression of a human immunodeficiency virus (HIV) coreceptor, comprising the steps of:

a. culturing [H9 T lymphoma or U937 promonocyte cells] cells capable of expressing said human HIV coreceptor;

b. [electroporating said H9 or said U937 cells to introduce] introducing Product R into said [H9 or said U937] cells by electroporation;

c. culturing said electroporated [H9 or said U937] cells;

d. preparing total RNA from said [H9 or said U937] cultured electroporated cells after [the] step c;

e. reverse-transcribing the mRNA of said HIV coreceptor by a reverse transcription-polymerase chain reaction (RT-PCR) to produce an RT-PCR product of the gene expression of said HIV coreceptor; and

f. measuring the amount of said RT-PCR product to determine the reduction of said RT-PCR product.

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B4 3. (Amended) The method of claim 1, wherein [said step f further comprises the step of electrophorizing] the reduction of the amount of said RT-PCR product is determined by eletrophoresis.

4. (Amended) The method of claim 1, wherein said electroporated [H9 or U937] cells are cultured for [about] 14 hours to [about] 18 hours.

Please add the following new claims:

B5 7. (New) A method for determining down-regulation of gene expression of a human immunodeficiency virus (HIV) coreceptor, comprising the steps of:

a. electroporating cells to introduce Product R into cells capable of expressing said human HIV coreceptor;

b. reverse-transcribing the mRNA of said HIV coreceptor by a reverse transcription-polymerase chain reaction (RT-PCT) to produce an RT-PCR product of the gene expression of said HIV coreceptor; and

c. measuring the amount of said RT-PCR product to determine the reduction of said RT-PCR product.

8. (New) The method of claim 7, wherein said cells capable of expressing said HIV coreceptor are selected from the group consisting of H9 and U937 cell lines.

9. (New) The method of claim 1, wherein said cells capable of expressing said HIV coreceptor are selected from the group consisting of H9 and U937 cell lines.